FIG. 1

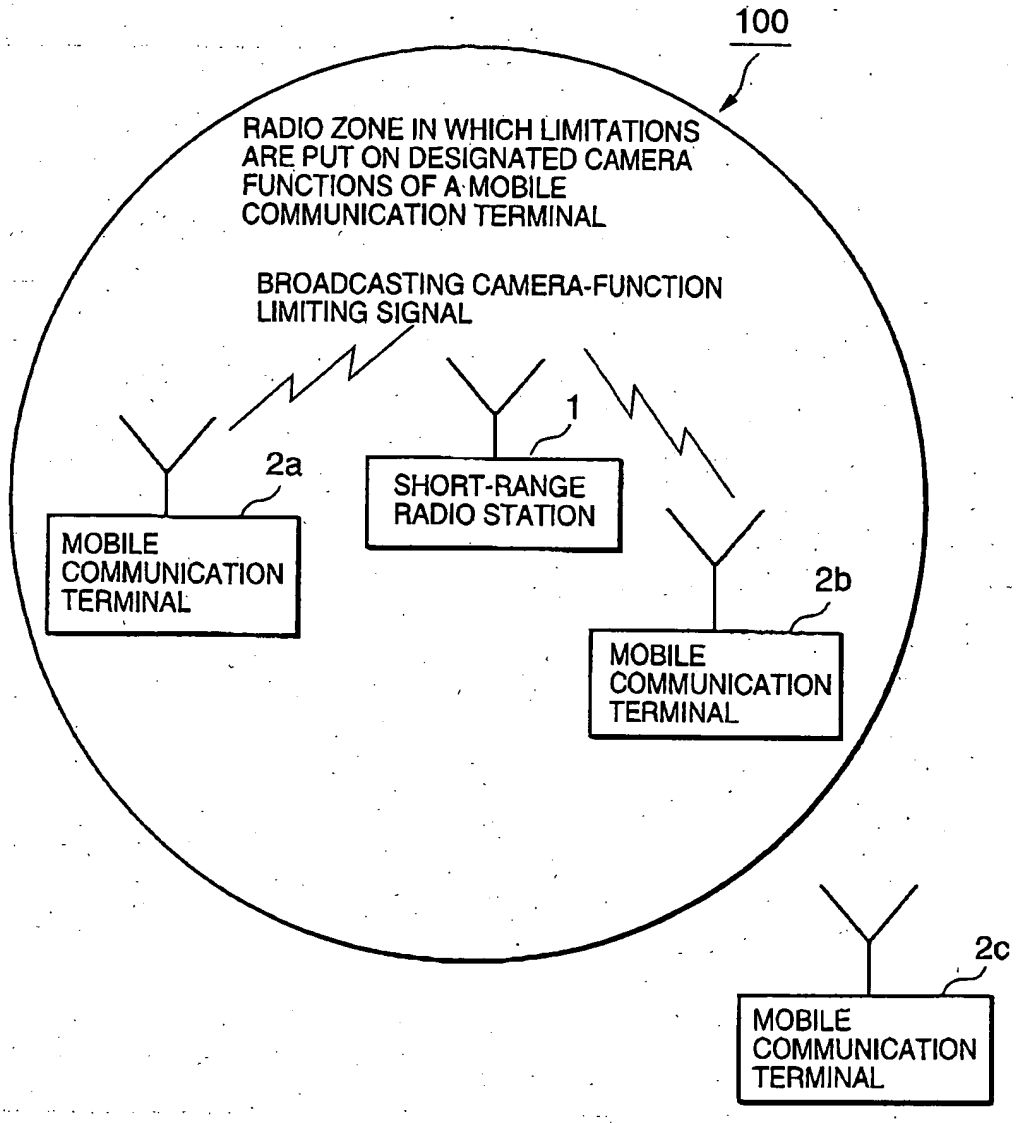

100
RADIO ZONE IN WHICH LIMITATIONS ARE PUT ON DESIGNATED CAMERA FUNCTIONS OF A MOBILE COMMUNICATION TERMINAL
BROADCASTING CAMERA-FUNCTION LIMITING SIGNAL
1
SHORT-RANGE RADIO STATION
2a
MOBILE COMMUNICATION TERMINAL
2b
MOBILE COMMUNICATION TERMINAL
2c
MOBILE COMMUNICATION TERMINAL

FIG. 2

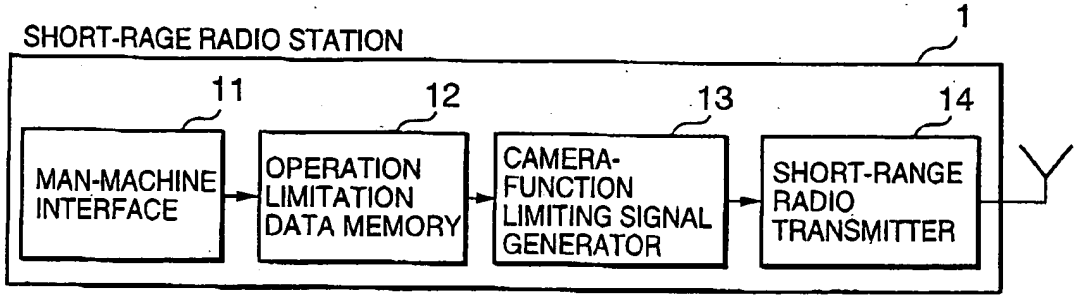

SHORT-RAGE RADIO STATION
1
11
12
13
14
MAN-MACHINE INTERFACE
OPERATION LIMITATION DATA MEMORY
CAMERA-FUNCTION LIMITING SIGNAL GENERATOR
SHORT-RANGE RADIO TRANSMITTER

FIG. 3

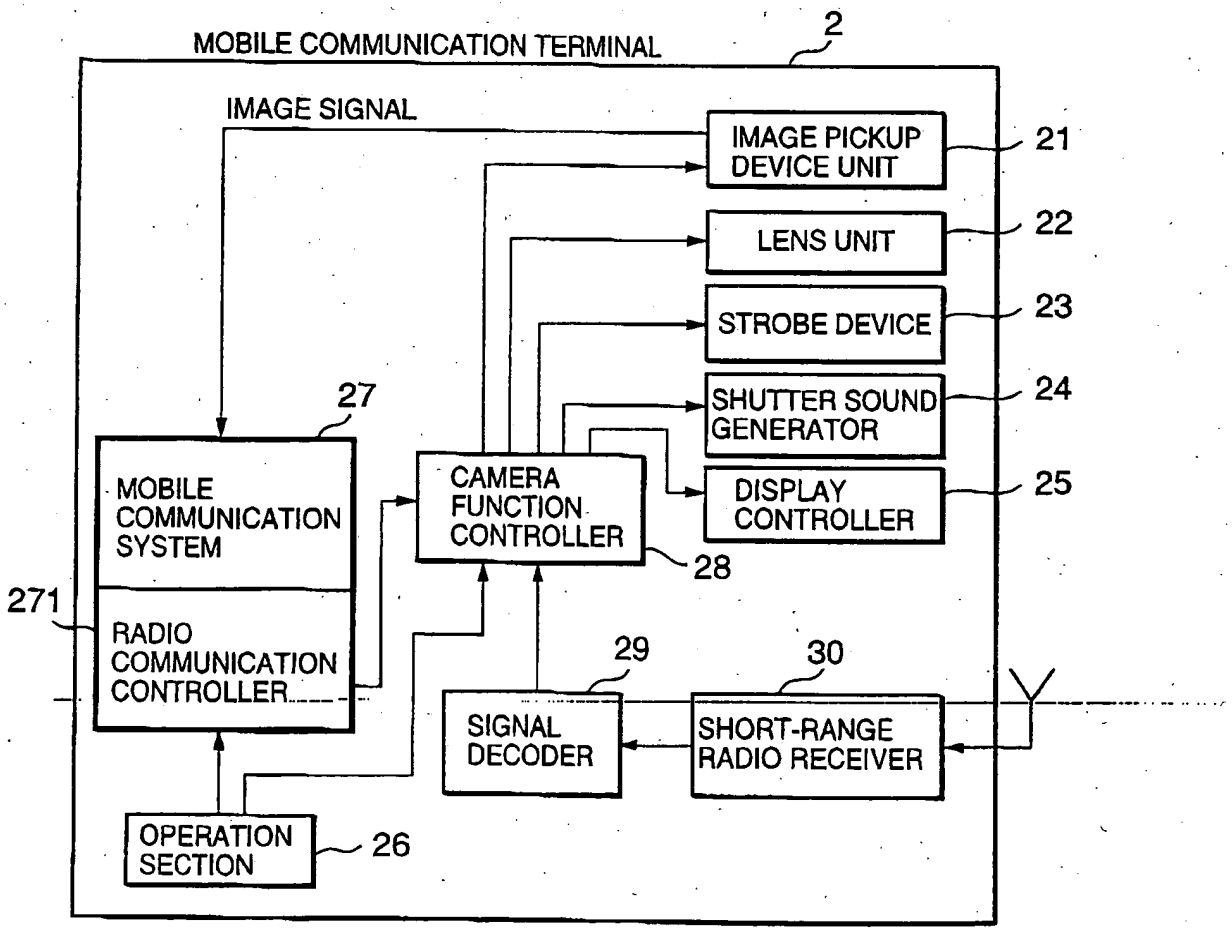

MOBILE COMMUNICATION TERMINAL
2
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
LENS UNIT
22
STROBE DEVICE
23
SHUTTER SOUND GENERATOR
24
DISPLAY CONTROLLER
25
27
MOBILE COMMUNICATION SYSTEM
271
RADIO COMMUNICATION CONTROLLER
CAMERA FUNCTION CONTROLLER
28
29
30
SIGNAL DECODER
SHORT-RANGE RADIO RECEIVER
OPERATION SECTION
26

FIG. 4A

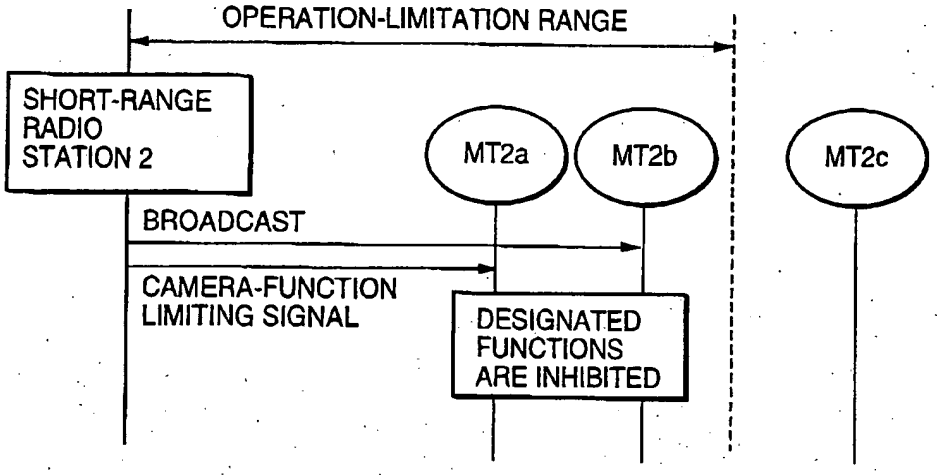


FIG. 4B

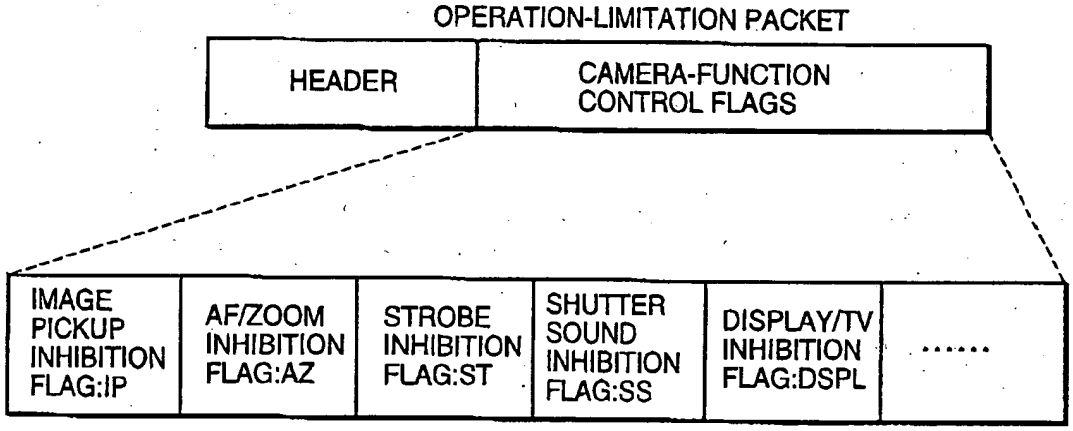


FIG. 4C

IP	AZ	ST	SS	DSPL
0	1	1	1	0

1 : INHIBITED
0 : PERMITTED

FIG. 5

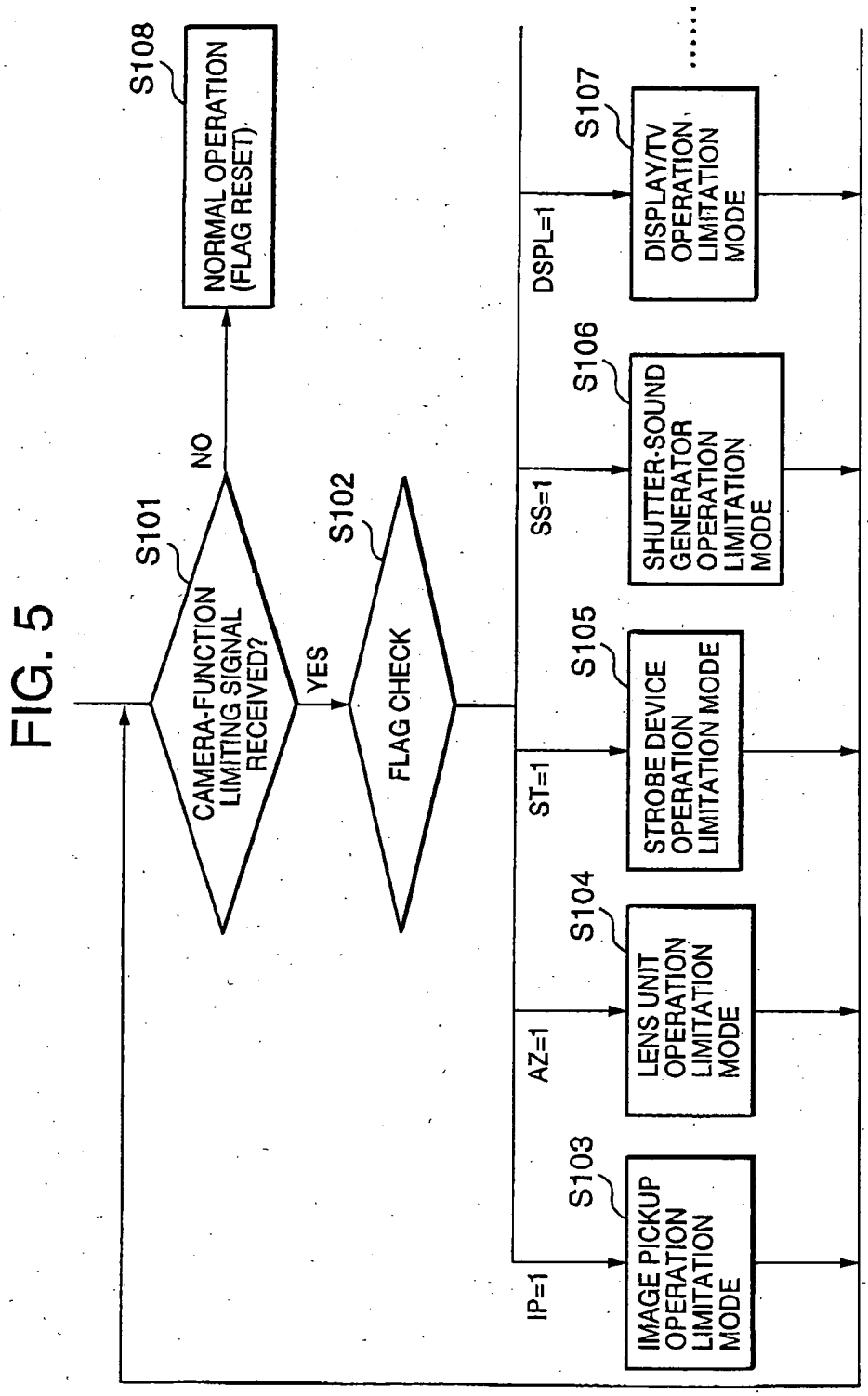

S101
CAMERA-FUNCTION LIMITING SIGNAL RECEIVED?
NO
S108
NORMAL OPERATION (FLAG RESET)
YES
S102
FLAG CHECK
IP=1
S103
IMAGE PICKUP OPERATION LIMITATION MODE
AZ=1
S104
LENS UNIT OPERATION LIMITATION MODE
ST=1
S105
STROBE DEVICE OPERATION LIMITATION MODE
SS=1
S106
SHUTTER-SOUND GENERATOR OPERATION LIMITATION MODE
DSPL=1
S107
DISPLAY/TV OPERATION LIMITATION MODE
.....

FIG. 6

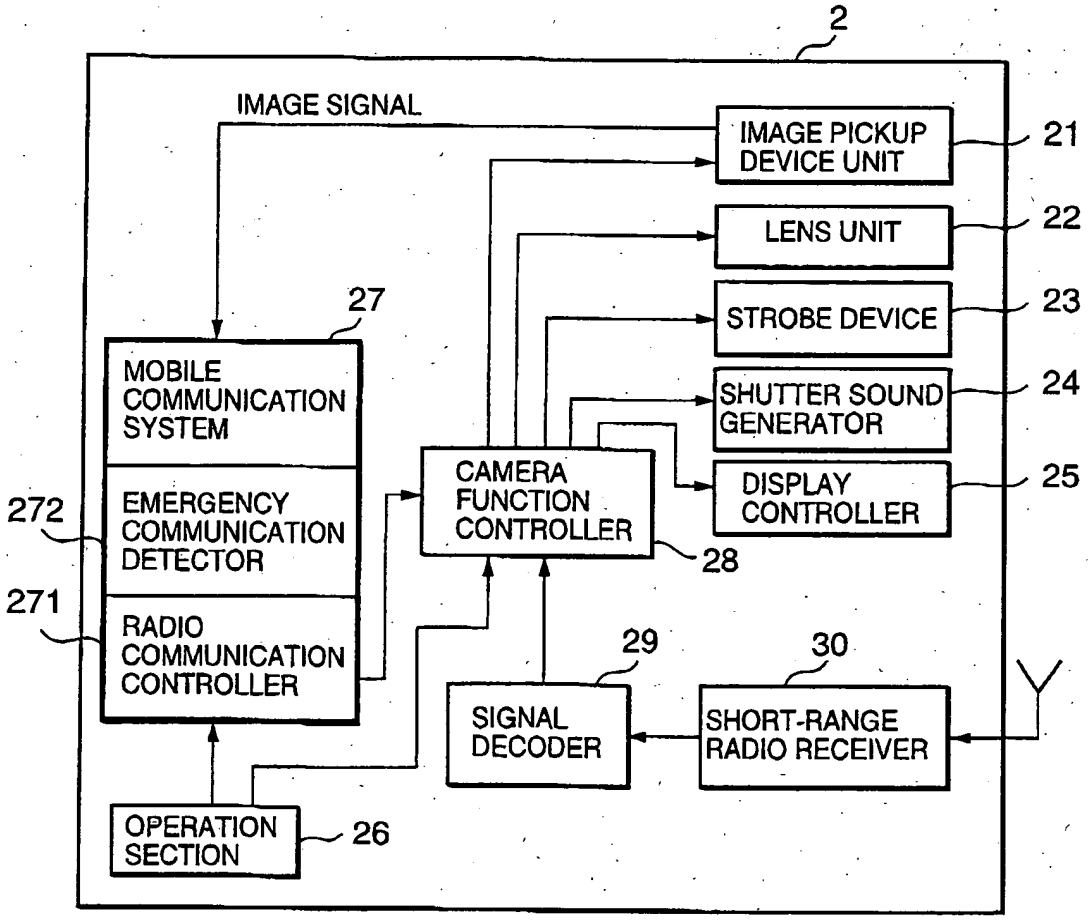

2
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
LENS UNIT
22
STROBE DEVICE
23
SHUTTER SOUND GENERATOR
24
DISPLAY CONTROLLER
25
27
MOBILE COMMUNICATION SYSTEM
272
EMERGENCY COMMUNICATION DETECTOR
271
RADIO COMMUNICATION CONTROLLER
CAMERA FUNCTION CONTROLLER
28
29
SIGNAL DECODER
30
SHORT-RANGE RADIO RECEIVER
OPERATION SECTION
26

FIG. 7

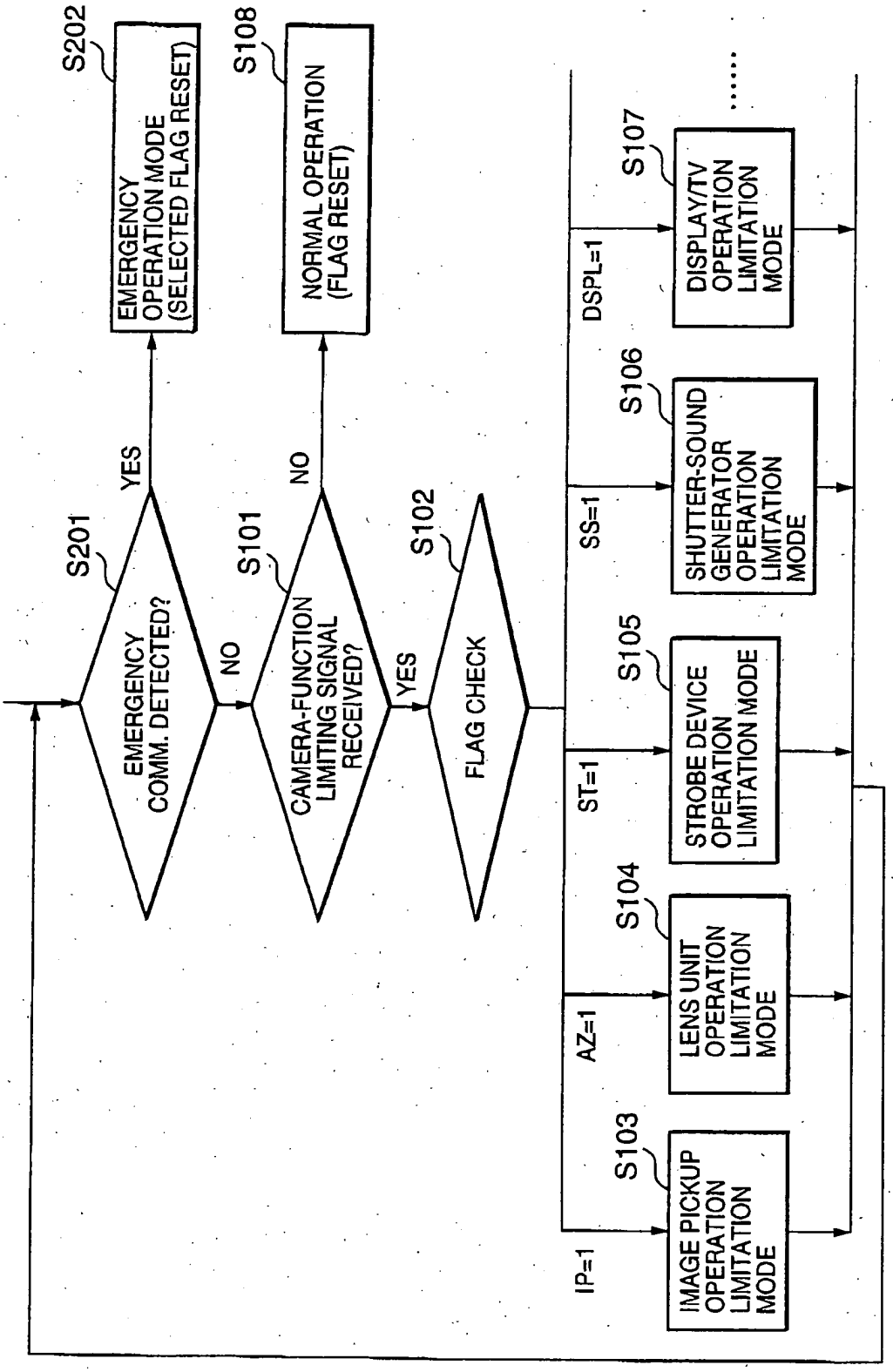

S201
EMERGENCY COMM. DETECTED?
YES
S202
EMERGENCY OPERATION MODE (SELECTED FLAG RESET)
NO
S101
CAMERA-FUNCTION LIMITING SIGNAL RECEIVED?
NO
S108
NORMAL OPERATION (FLAG RESET)
YES
S102
FLAG CHECK
IP=1
S103
IMAGE PICKUP OPERATION LIMITATION MODE
AZ=1
S104
LENS UNIT OPERATION LIMITATION MODE
ST=1
S105
STROBE DEVICE OPERATION LIMITATION MODE
SS=1
S106
SHUTTER-SOUND GENERATOR OPERATION LIMITATION MODE
DSPL=1
S107
DISPLAY/TV OPERATION LIMITATION MODE
.....

FIG. 8

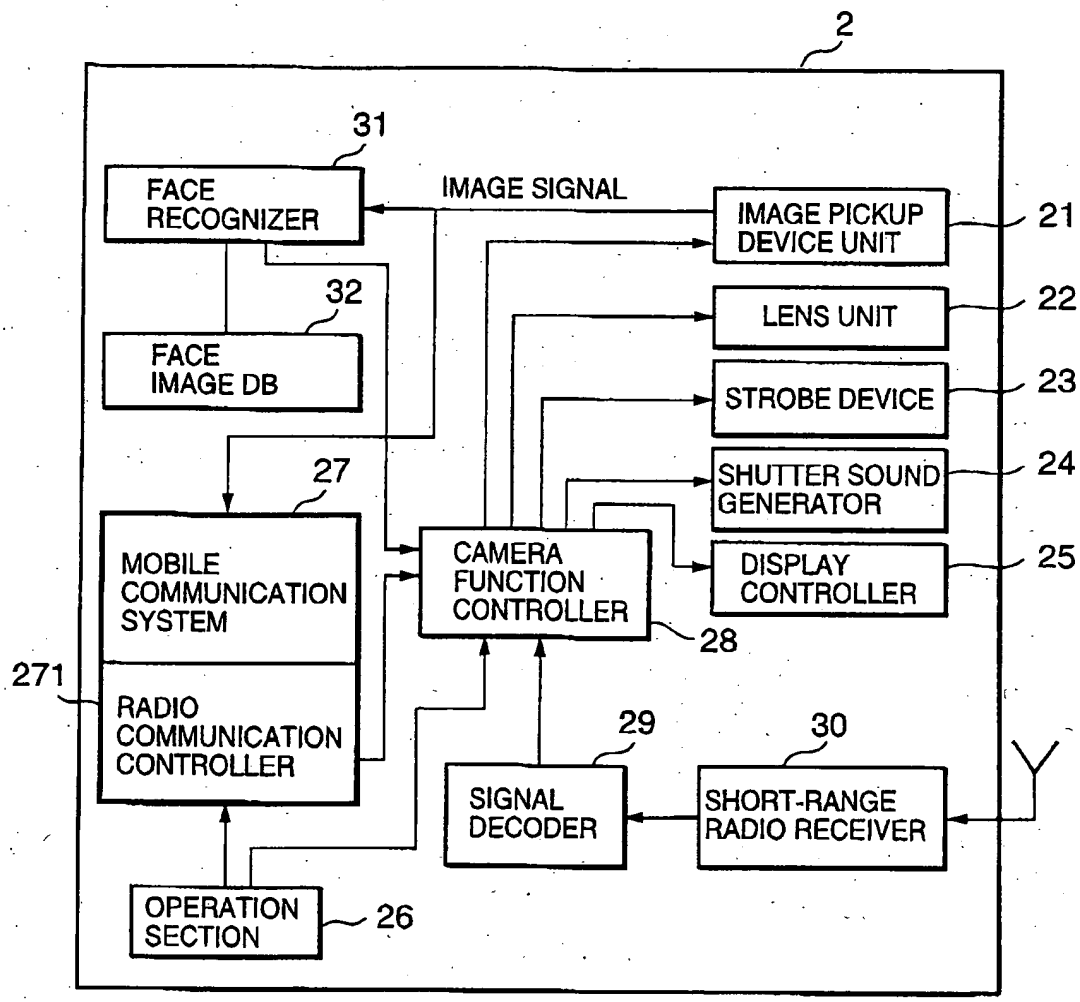

2
31
FACE RECOGNIZER
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
32
FACE IMAGE DB
LENS UNIT
22
STROBE DEVICE
23
27
SHUTTER SOUND GENERATOR
24
MOBILE COMMUNICATION SYSTEM
CAMERA FUNCTION CONTROLLER
DISPLAY CONTROLLER
25
28
271
RADIO COMMUNICATION CONTROLLER
29
30
SIGNAL DECODER
SHORT-RANGE RADIO RECEIVER
OPERATION SECTION
26

FIG. 9

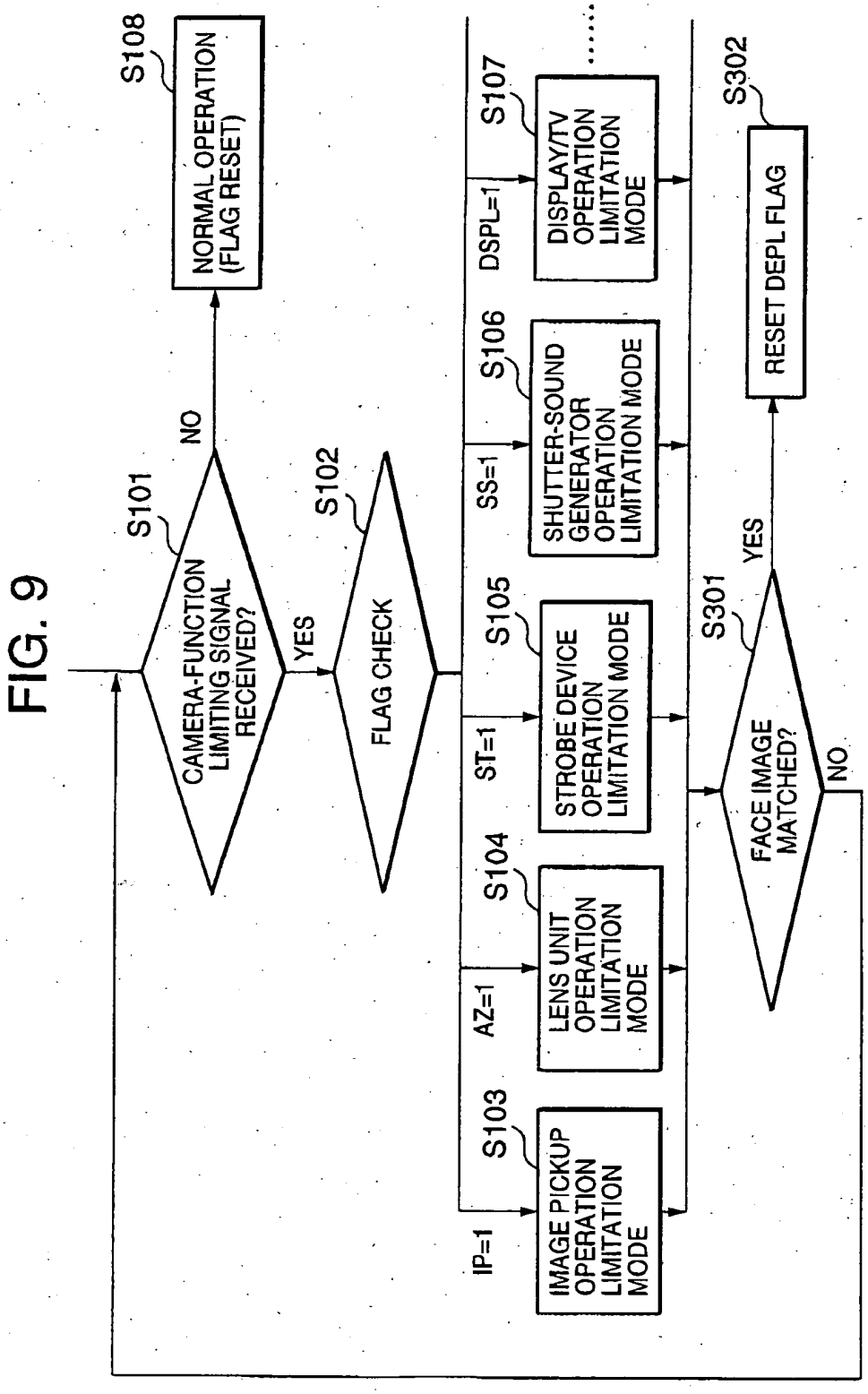

S101
CAMERA-FUNCTION LIMITING SIGNAL RECEIVED?
NO
YES
S108
NORMAL OPERATION (FLAG RESET)
S102
FLAG CHECK
IP=1
S103
IMAGE PICKUP OPERATION LIMITATION MODE
AZ=1
S104
LENS UNIT OPERATION LIMITATION MODE
ST=1
S105
STROBE DEVICE OPERATION LIMITATION MODE
SS=1
S106
SHUTTER-SOUND GENERATOR OPERATION LIMITATION MODE
DSPL=1
S107
DISPLAY/TV OPERATION LIMITATION MODE
.....
S301
FACE IMAGE MATCHED?
YES
NO
S302
RESET DEPL FLAG

FIG. 10

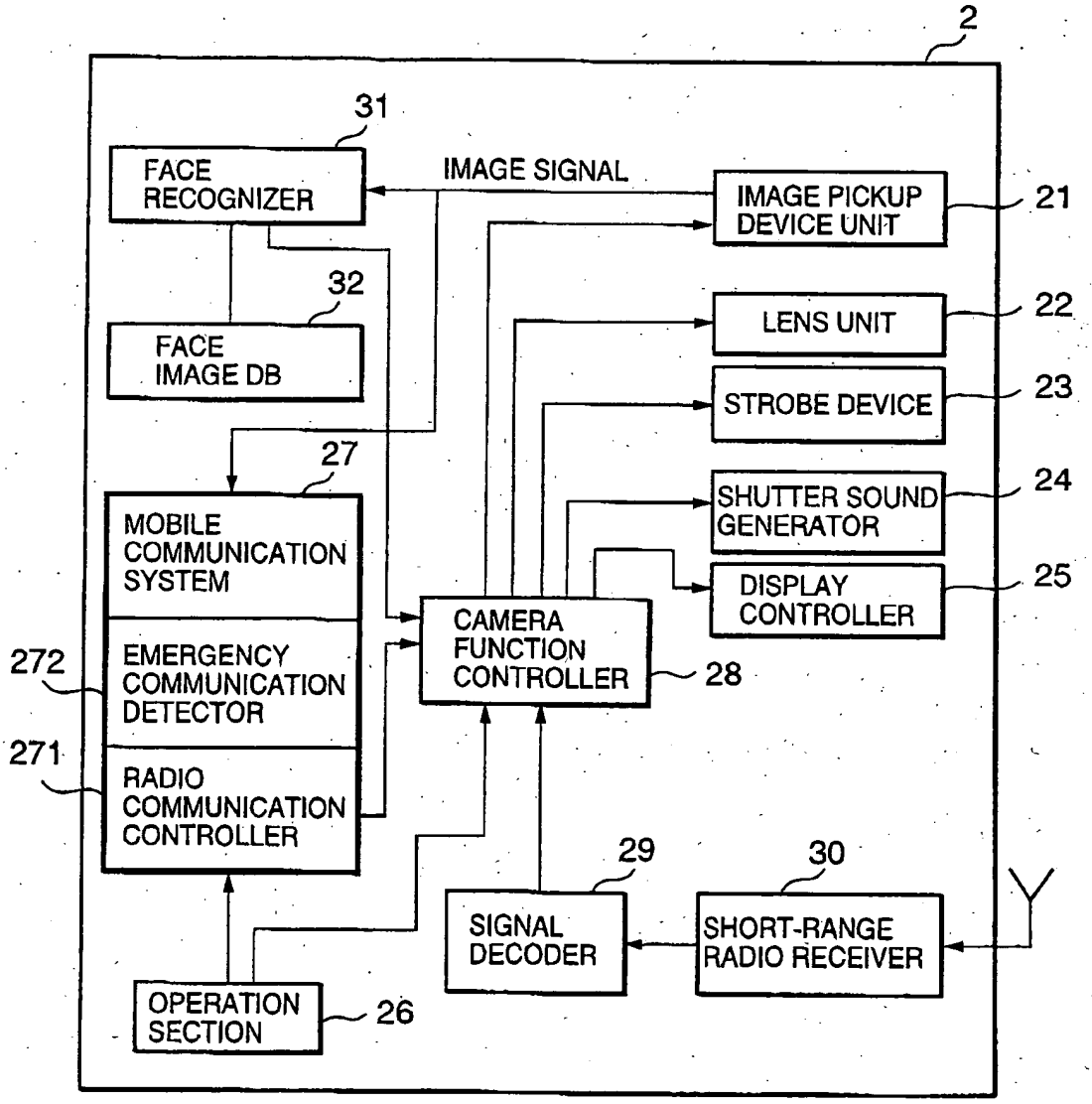

2
31
FACE RECOGNIZER
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
32
FACE IMAGE DB
LENS UNIT
22
STROBE DEVICE
23
27
MOBILE COMMUNICATION SYSTEM
SHUTTER SOUND GENERATOR
24
DISPLAY CONTROLLER
25
272
EMERGENCY COMMUNICATION DETECTOR
CAMERA FUNCTION CONTROLLER
28
271
RADIO COMMUNICATION CONTROLLER
29
30
SIGNAL DECODER
SHORT-RANGE RADIO RECEIVER
OPERATION SECTION
26

FIG. 11

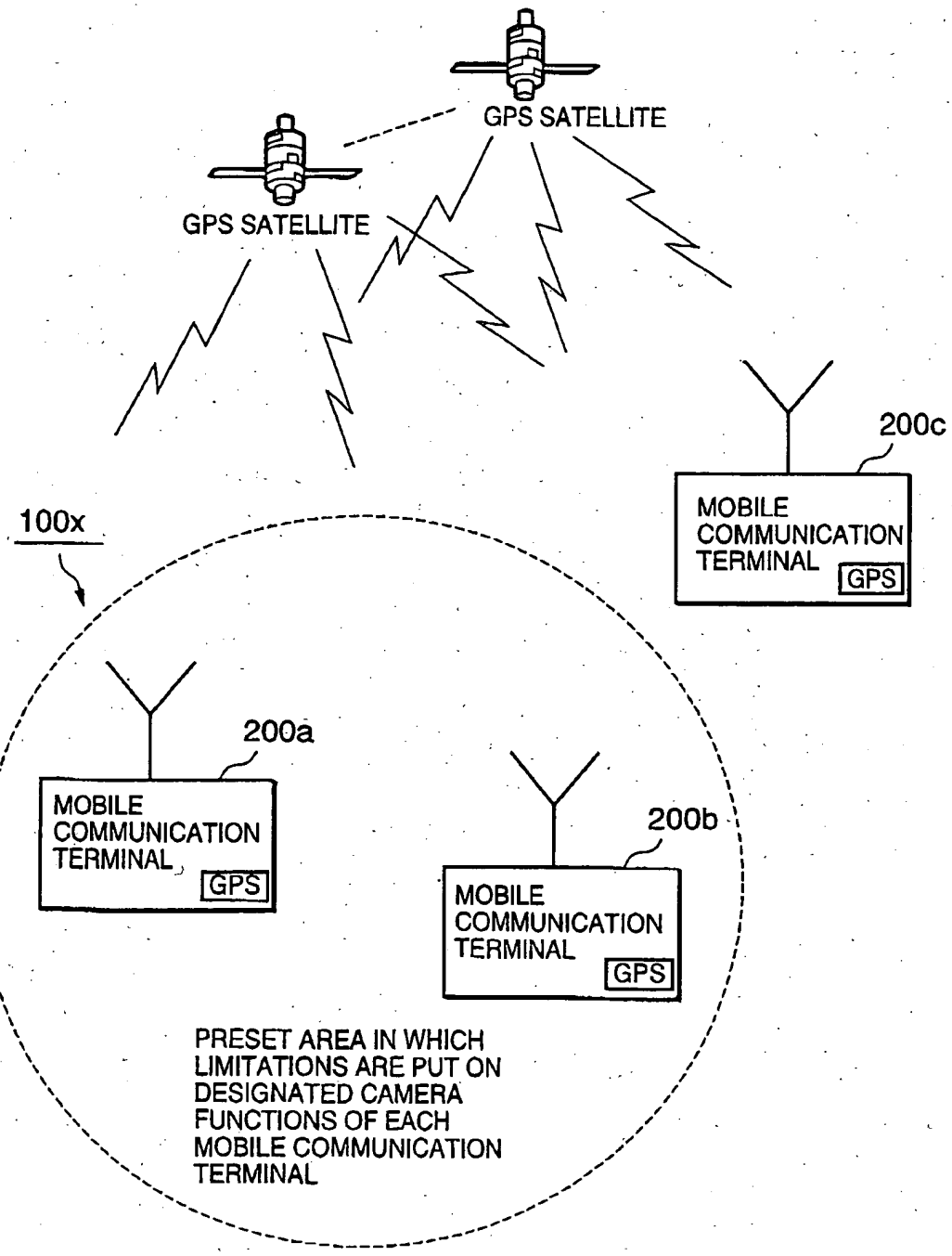

GPS SATELLITE
GPS SATELLITE
200c
MOBILE COMMUNICATION TERMINAL
GPS
100x
200a
MOBILE COMMUNICATION TERMINAL
GPS
200b
MOBILE COMMUNICATION TERMINAL
GPS
PRESET AREA IN WHICH LIMITATIONS ARE PUT ON DESIGNATED CAMERA FUNCTIONS OF EACH MOBILE COMMUNICATION TERMINAL

FIG. 12

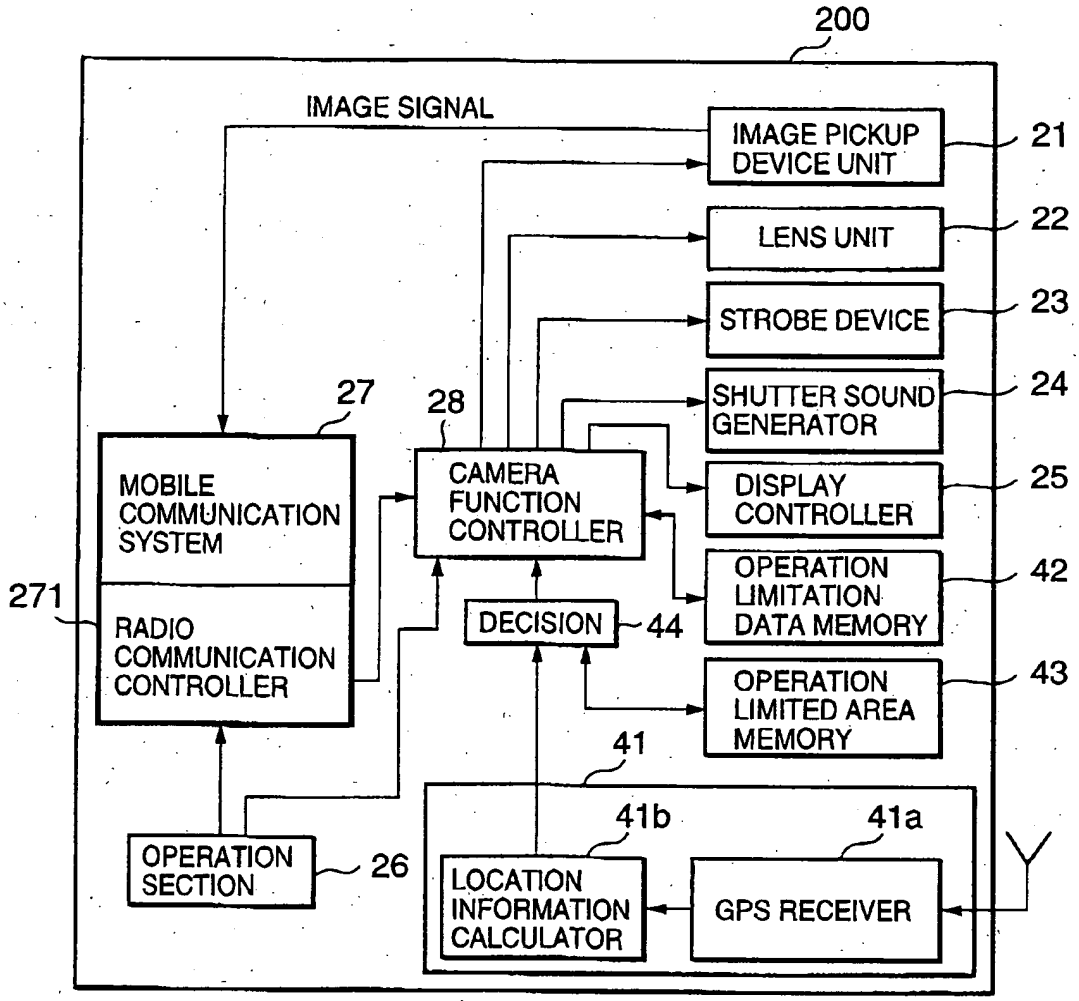

200
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
LENS UNIT
22
STROBE DEVICE
23
SHUTTER SOUND GENERATOR
24
DISPLAY CONTROLLER
25
OPERATION LIMITATION DATA MEMORY
42
OPERATION LIMITED AREA MEMORY
43
27
28
MOBILE COMMUNICATION SYSTEM
271
RADIO COMMUNICATION CONTROLLER
CAMERA FUNCTION CONTROLLER
DECISION
44
41
41b
41a
OPERATION SECTION
26
LOCATION INFORMATION CALCULATOR
GPS RECEIVER

FIG. 13

42,43

OPERATION LIMITED AREA	IMAGE PICKUP INHIBITION (IP)	AF/ZOOM INHIBITION (AZ)	STROBE INHIBITION (ST)	SHUTTER SOUND INHIBITION (SS)	DISPLAY/TV INHIBITION (DSPL)
A_1	1	1	1	1	1
A_2	0	1	1	0	0
.....	.....	.....	.....	.....	.....

(1: INHIBITED
0: PERMITTED)

FIG. 14

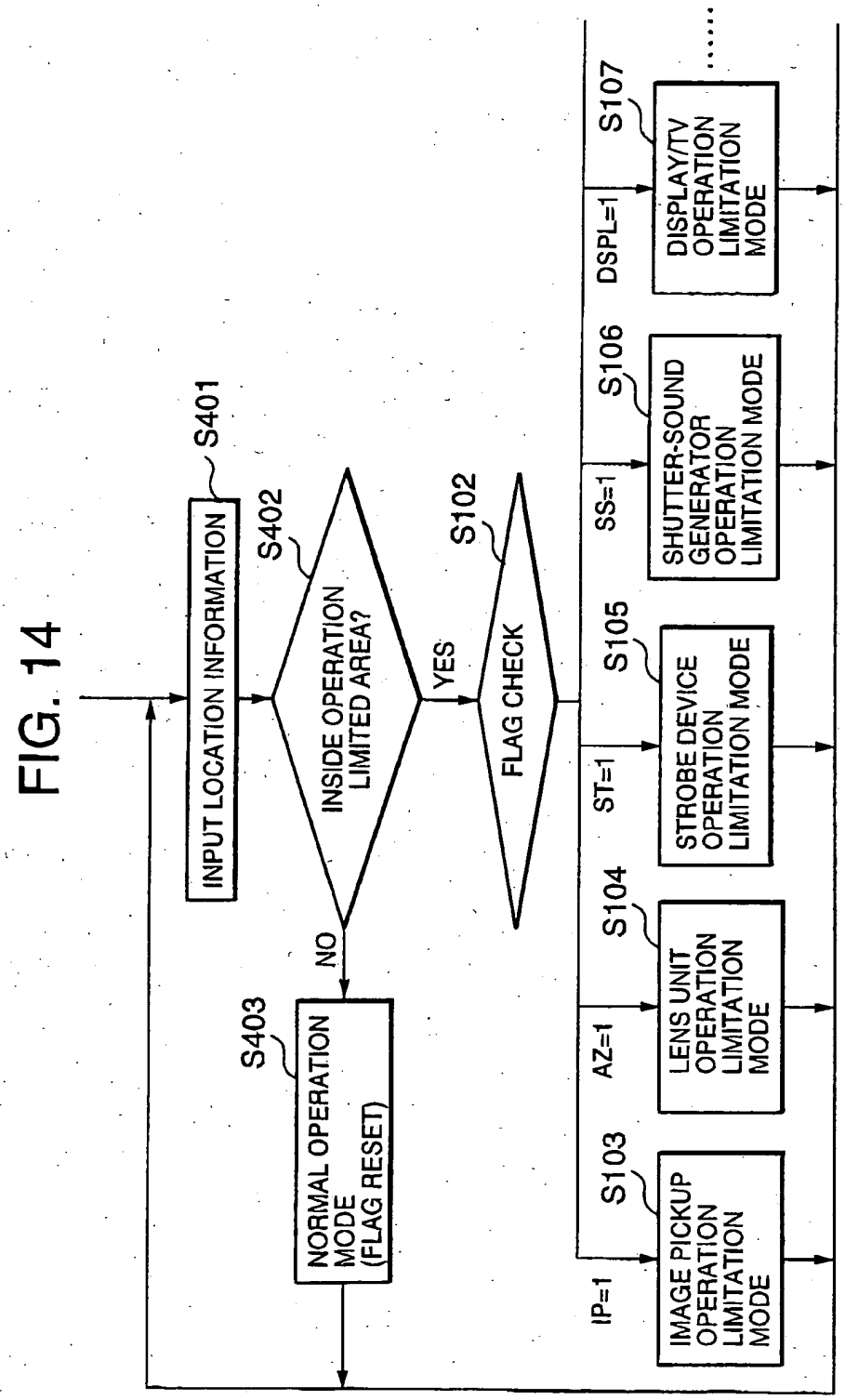

S401
INPUT LOCATION INFORMATION
S402
INSIDE OPERATION LIMITED AREA?
NO
YES
S403
NORMAL OPERATION MODE (FLAG RESET)
S102
FLAG CHECK
IP=1
S103
IMAGE PICKUP OPERATION LIMITATION MODE
AZ=1
S104
LENS UNIT OPERATION LIMITATION MODE
ST=1
S105
STROBE DEVICE OPERATION LIMITATION MODE
SS=1
S106
SHUTTER-SOUND GENERATOR OPERATION LIMITATION MODE
DSPL=1
S107
DISPLAY/TV OPERATION LIMITATION MODE
.....

FIG. 15

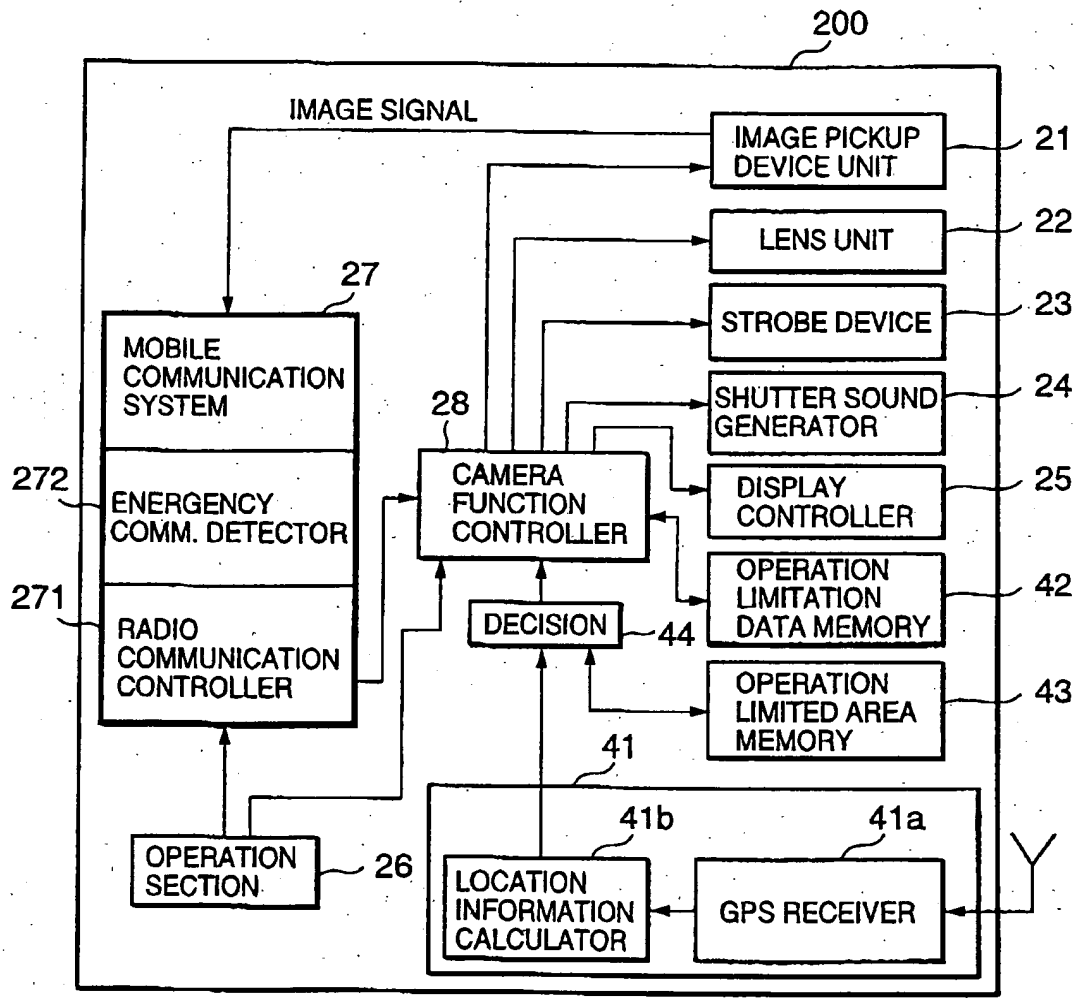

200
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
LENS UNIT
22
STROBE DEVICE
23
SHUTTER SOUND GENERATOR
24
DISPLAY CONTROLLER
25
OPERATION LIMITATION DATA MEMORY
42
OPERATION LIMITED AREA MEMORY
43
DECISION
44
CAMERA FUNCTION CONTROLLER
28
27
MOBILE COMMUNICATION SYSTEM
272
ENERGENCY COMM. DETECTOR
271
RADIO COMMUNICATION CONTROLLER
OPERATION SECTION
26
41
41b
LOCATION INFORMATION CALCULATOR
41a
GPS RECEIVER

FIG. 16

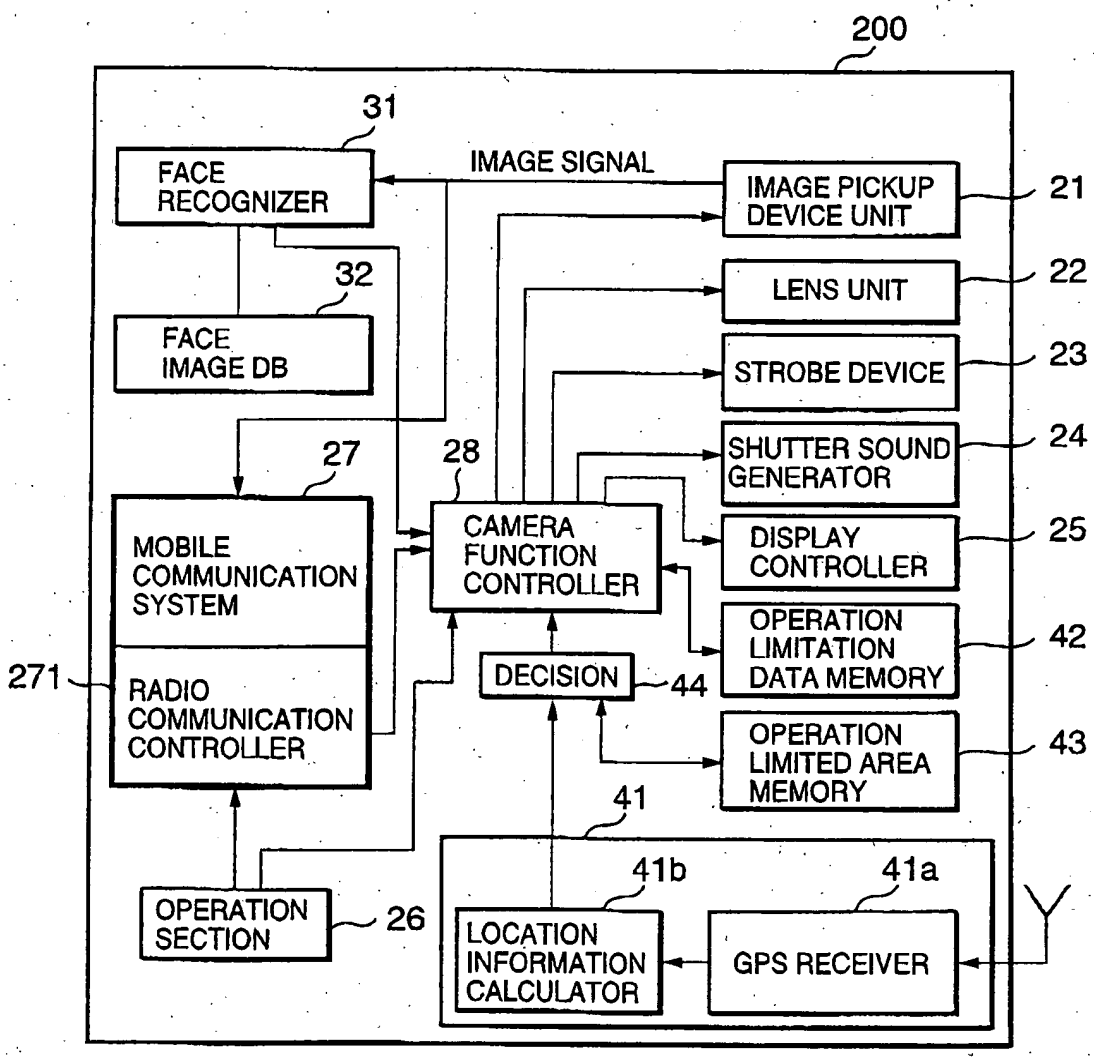

200
31
FACE RECOGNIZER
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
32
FACE IMAGE DB
LENS UNIT
22
STROBE DEVICE
23
27
28
SHUTTER SOUND GENERATOR
24
MOBILE COMMUNICATION SYSTEM
CAMERA FUNCTION CONTROLLER
DISPLAY CONTROLLER
25
271
RADIO COMMUNICATION CONTROLLER
DECISION
44
OPERATION LIMITATION DATA MEMORY
42
OPERATION LIMITED AREA MEMORY
43
41
41b
41a
OPERATION SECTION
26
LOCATION INFORMATION CALCULATOR
GPS RECEIVER

FIG. 17

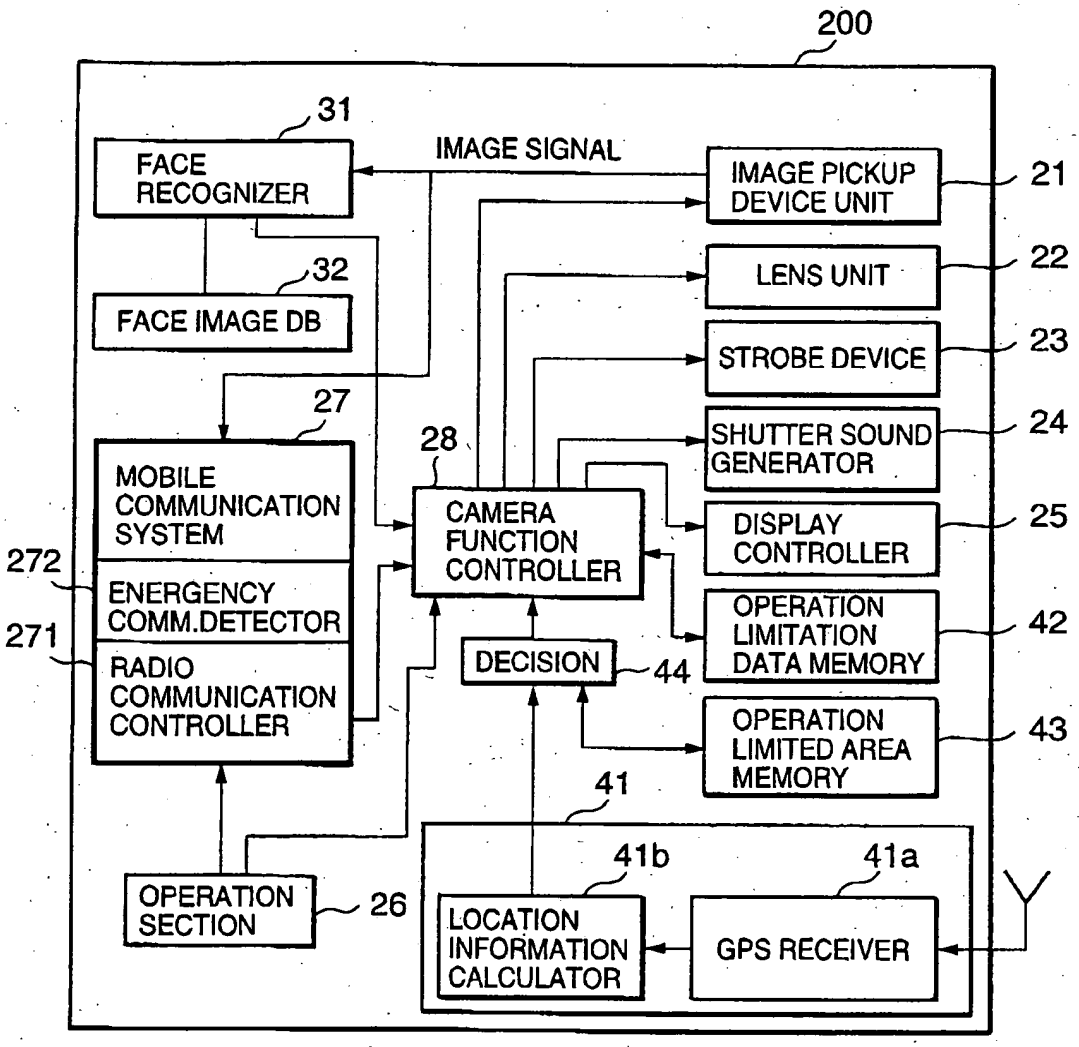
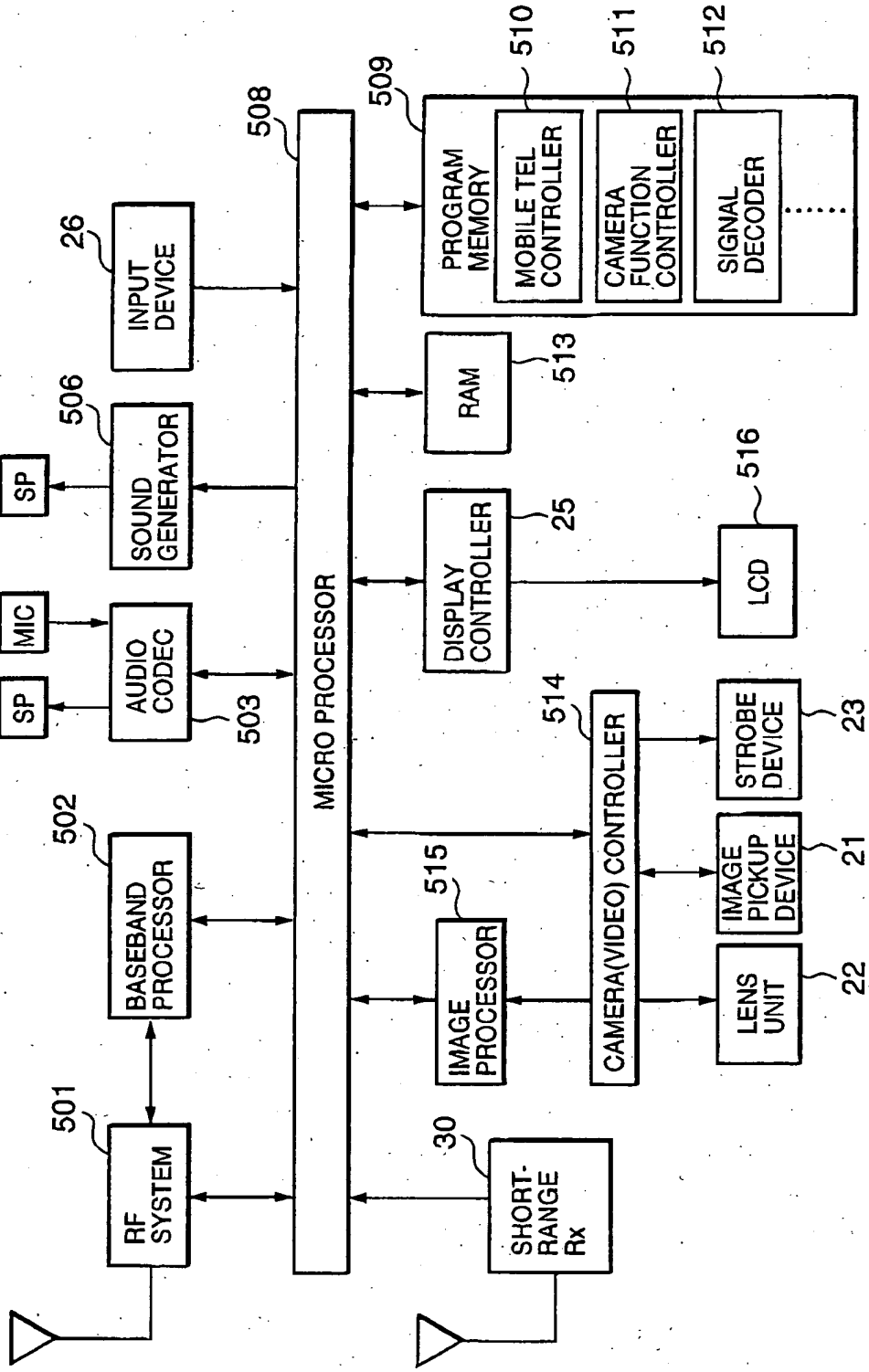

200
31
FACE RECOGNIZER
IMAGE SIGNAL
IMAGE PICKUP DEVICE UNIT
21
32
FACE IMAGE DB
LENS UNIT
22
STROBE DEVICE
23
27
28
MOBILE COMMUNICATION SYSTEM
SHUTTER SOUND GENERATOR
24
CAMERA FUNCTION CONTROLLER
DISPLAY CONTROLLER
25
272
ENERGENCY COMM.DETECTOR
271
RADIO COMMUNICATION CONTROLLER
DECISION
44
OPERATION LIMITATION DATA MEMORY
42
OPERATION LIMITED AREA MEMORY
43
41
41b
41a
OPERATION SECTION
26
LOCATION INFORMATION CALCULATOR
GPS RECEIVER

FIG. 18


501
RF SYSTEM
502
BASEBAND PROCESSOR
503
AUDIO CODEC
504
SP
505
MIC
506
SOUND GENERATOR
507
SP
508
MICRO PROCESSOR
509
PROGRAM MEMORY
510
MOBILE TEL CONTROLLER
511
CAMERA FUNCTION CONTROLLER
512
SIGNAL DECODER
513
RAM
514
CAMERA(VIDEO) CONTROLLER
515
IMAGE PROCESSOR
516
LCD
25
DISPLAY CONTROLLER
26
INPUT DEVICE
30
SHORT-RANGE Rx
21
IMAGE PICKUP DEVICE
22
LENS UNIT
23
STROBE DEVICE